# V1160 Series
# Day/Night Color to B/W Switching Camera

**Security Systems**

- Mechanical IR Cut filter switching from day to night mode
- 1/3-inch format CCD imager
- On-screen menu programming
- Video, DC, or ESC iris modes
- Automatic backlight compensation with selectable area and sensitivity
- Automatic gain control selectable
- Wide dynamic functions selectable
- Programmable video motion detector with 5 V pulse output on the camera
- Flexible mounting options

The V1160 is a day/night camera that switches automatically between color and black & white mode whenever the environmental lighting conditions ask for it. This switching is performed through a mechanical, removable IR Cut filter. The camera is controllable via an on-screen display menu using the navigation keys on the back of the camera. Due to its outstanding performance in any lighting condition and its high resolution (520 lines in B/W and 480 lines in color) the camera can be used in any security application one can imagine. Its powerful backlight compensation, and electronic iris ensure the clearest possible images under a wide variety of conditions.

The OSD menu programming options:
- Camera IDentification
- BLC: OFF / ON (weight: 1 to 4)
- VMD: user adjustable area & sensitivity
- Lens: Manual / DC / Video (with brightness control)
- Shutter: ESC (brightness control) / Manual (11 speeds selectable and flickerless mode)
- Gain: AGC with brightness & limit control or OFF
- White balance: ATW/AWC/Manual (red & blue)
- Color mode: On / Off / Auto1 / Auto2
- Sync.: internal
- Reset

**BOSCH**

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|---|---|---|
| **Model No.** | V1160P | PAL System |
| | V1160N | NTSC System |
| **Power** | Input Voltage | 12 VDC or 24 VAC (± 10 %) |
| | Consumption | 3.5 W (DC), 3.8 W (AC) |
| **Video** | Pick-up Device | PAL Model: 1/3-inch CCD imager; 795 (H) x 596 (V) |
| | | NTSC Model: 1/3-inch CCD imager; 768 (H) x 496 (V) |
| | Scanning System | 2:1 Interlace (Standard) |
| | SYNC System | INT/Line lock |
| | Output | 1 Vp-p Composite |
| | Minimum Illumination | 0.01 lux (B/W mode), 0.5 lux (color mode), both at F1.2 |
| | Color mode | Auto1 / Auto2 / On / Off mode selectable |
| | OSD | Camera ID, adjust menu, motion detection … |
| | AGC | Built-in and adjustable |
| | Backlight Compensation | Off / On (selectable weight 1 to 4) |
| **Lens & Iris** | Iris Mode | Video/DC/ESC selectable |
| | Iris Speed | 1/50 - 1/10, 000 sec selectable 11 speeds and flickerless mode |
| | Lens Mount | Type C/CS-mount with adapter included |
| **RS-232C** | | Available |
| **S/N Ratio** | | > 48 dB (AGC Off) |
| **Horizontal Resolution** | | 520 lines in B/W mode, 480 lines in color mode |
| **Housing** | Weight | 0.40 kg (0.9 lb) |
| | Dimensions (w/o lens) [H x W x D] | 50mm x 57mm x 130mm (2.24 in x 2.17 in x 5.31 in) |
| **Environment** | Operating Temperature | -25.6°C to +50°C (-14°F to +122°F) |

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